

PLANS FOR CONSTRUCTION OF:

LIBBY AREA OFFICE STORAGE BUILDING

LIBBY, MONTANA
FWP PROJECT #7179101

SHEET INDEX

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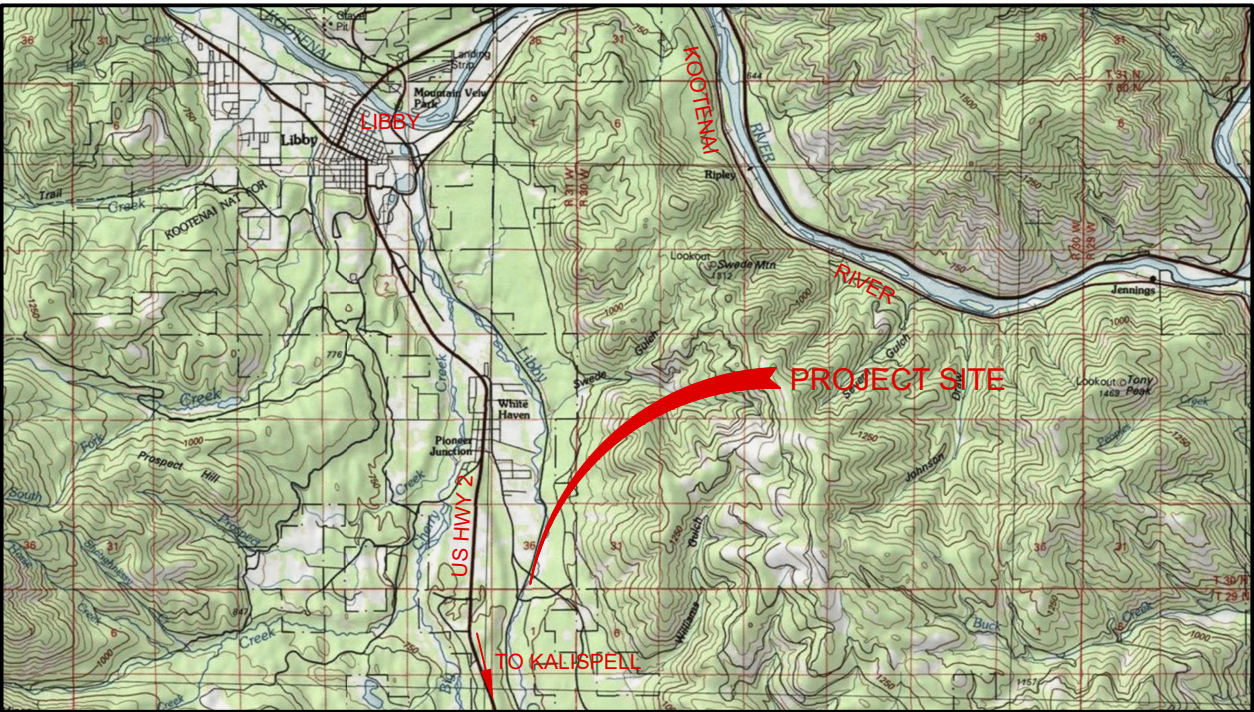
CIVIL SITE DESIGN BY:
LARSON CIVIL ENGINEERING, LLC

ELECTRICAL DESIGN BY:
AMES ENGINEERING

ARCHITECTURAL REVIEW BY:
SLATE ARCHITECTURE

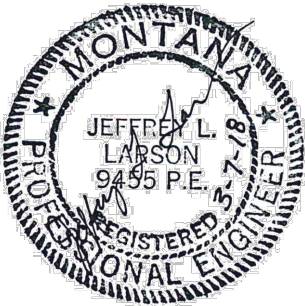
CODE ANALYSIS

CODES: BUILDING: 2012 INTERNATIONAL BUILDING CODE (IBC) MECHANICAL: 2012 INTERNATIONAL MECHANICAL CODE (IMC) PLUMBING: 2012 UNIFORM PLUMBING CODE (UPC) ELECTRICAL: 2014 NATIONAL ELECTRICAL CODE (NEC) FIRE: 2012 INTERNATIONAL FIRE CODE ENERGY: 2012 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) ACCESSIBILITY: ANSI 117.1	EXTERIOR WALL PROTECTION: IBC TABLE 602 NONE REQUIRED
BUILDING AREA: TOTAL BUILDING AREA: 2,560 S.F.	FLAME SPREAD: IBC TABLE 803.9 EXIT ENCLOSURE & PASSAGEWAYS: B CORRIDORS: B ROOMS AND ENCLOSED SPACES: C
OCCUPANCY: IBC SECT. 311 *S-1* OCCUPANCY	AUTOMATIC SPRINKLER SYSTEM: IBC SECTION 903 NONE
CONSTRUCTION TYPE: IBC TABLE 601 TYPE V-B PERMITTED: 9,000 SF/FLR (TABLE 503) ACTUAL AREA: 2,560 SF	EXITS: IBC TABLE 1004.1.1 OCCUPANT LOAD: WAREHOUSES: 500 S.F. PER OCCUPANT OCCUPANT LOAD (NEW): 5
OCCUPANCY SEPARATION: IBC TABLE 508.4 NA	EXIT CALCULATION: IBC CH. 10 - TABLE 1015.1 2 EXITS PROVIDED
LOCATION ON PROPERTY: ±30' OPEN SPACE	DISTANCE TO EXITS: IBC SECTION 1016 200 FT. MAX.; LESS THAN 200 FT. PROVIDED
FIRE RESISTANCE: IBC TABLE 601 STRUCTURAL FRAME EXTERIOR BEARING WALLS INTERIOR BEARING WALLS EXTERIOR NONBEARING WALLS INTERIOR NONBEARING WALLS FLOOR CONSTRUCTION ROOF CONSTRUCTION PERMITTED: NONE REQUIRED	ROOF CONSTRUCTION: IBC TABLE 1505.1 CLASS C - MINIMUM CLASSIFICATION



VICINITY MAP

PROJECT ADDRESS:
LIBBY AREA OFFICE
MONTANA FISH, WILDLIFE AND PARKS
385 FISH HATCHERY ROAD
LIBBY, MONTANA 59923



J. LARSON
DRAWN BY: DATE: MARCH 7, 2018
J. LARSON
CHECKED BY: DATE: MARCH 7, 2018

REVISED BY: DATE:
J. LARSON MARCH 7, 2018
APPROVED BY: DATE:

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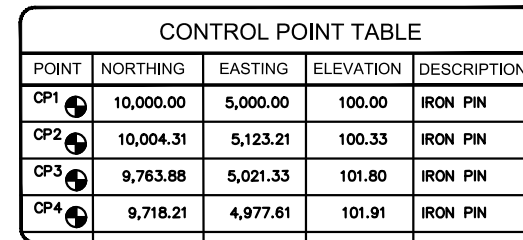
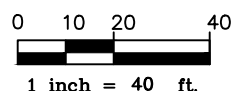
Montana Fish,
Wildlife & Parks

TITLE SHEET
LIBBY AREA OFFICE STORAGE BUILDING
FWP #7179101



28 ANTLER AVENUE
CLANCY, MT 59634
406-443-6111
jeff@larsonce.com

SHEET: T1



ASSUMED DATUM

BUILDING CORNER COORDINATES			
CORNER	NORTHING	EASTING	ELEVATION
NW	9,792.86	4,894.94	102.50
NE	9,763.05	4,883.31	102.50
SE	9,733.96	4,957.83	102.50
SW	9,763.77	4,969.47	102.50

ASSUMED DATUM

GRADING NOTES:

1. STEP GROUND ELEVATION DOWN TO 3" BELOW FLOOR ELEVATION ALONG THE SOUTH BUILDING FACE, EAST BUILDING FACE AND THE PORTION OF THE WEST BUILDING FACE THAT IS NOT FRONTED BY SIDEWALK.

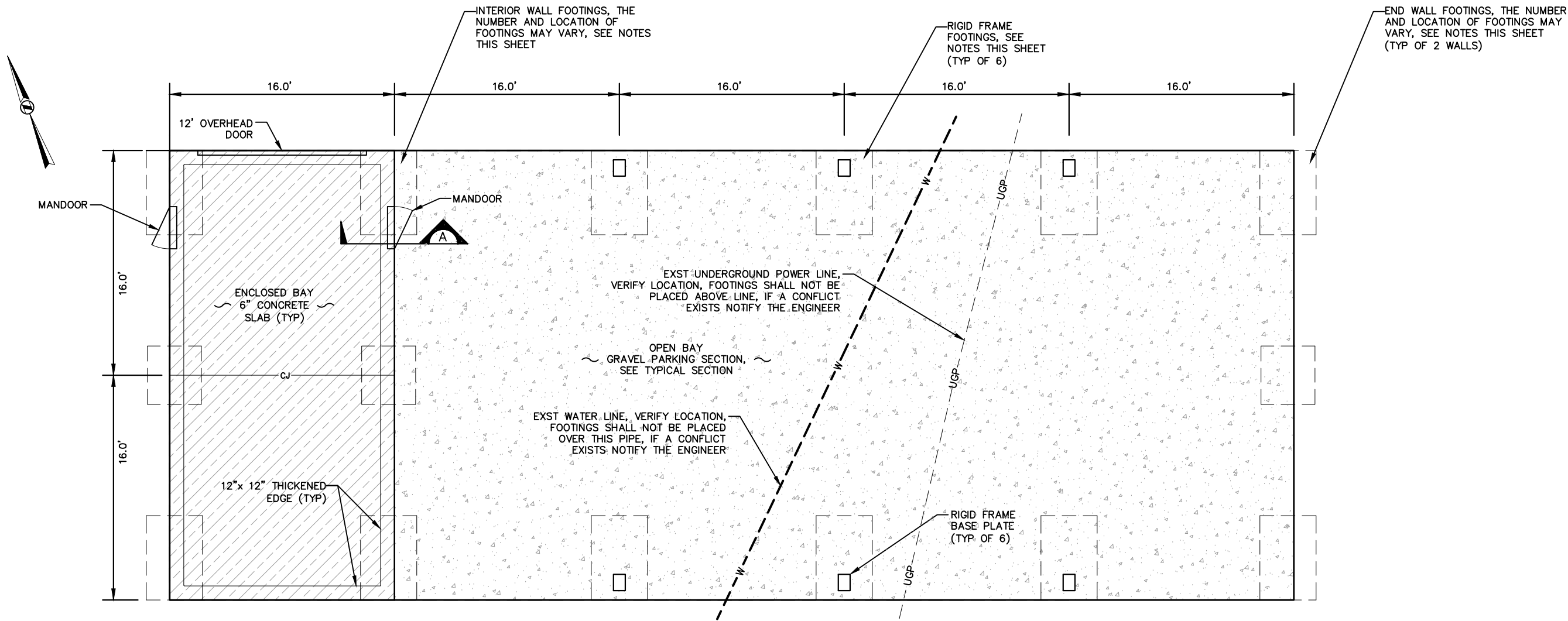


1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH "MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS", SIXTH EDITION (MPW).
2. BEFORE DIGGING, CALL 811 FOR LOCATION OF EXISTING UTILITIES.
3. CRUSHED BASE COURSE SHALL BE 1" MINUS PER MPW SPECIFICATIONS.
4. CONCRETE SLABS AND SIDEWALK SHALL BE REINFORCED WITH FIBER MESH.
5. CRUSHED TOP SURFACING FOR GRAVEL SURFACING SHALL MEET THE FOLLOWING SPECIFICATIONS INCLUDING BINDER OR BLENDING MATERIAL:

IN ADDITION, THE PORTION PASSING THE NO. 200 SIEVE CANNOT EXCEED 2/3 OF THE PORTION PASSING THE #40 SIEVE; THE MAXIMUM LIQUID LIMIT FOR THE MATERIAL PASSING THE NO. 40 SIEVE SHALL NOT EXCEED 35, WHILE THE PLASTICITY INDEX CAN VARY BETWEEN 3 AND 10; THE WEAR FACTOR SHALL NOT EXCEED 50% AT 500 REVOLUTIONS; AND AT LEAST 20% OF THE AGGREGATE RETAINED ON NO. 4 SIEVE SHALL HAVE A FRACTURED FACE.

-
- FILL SPACES BETWEEN GRIDERS TO COMPLETELY ENCLOSE INTERIOR ROOM (TYP)
- 12
- 3
- 26 GAUGE DELTA RIB METAL SIDING, ON EAST SIDE OF WALL FRAMING
- 18'-0"
- NOTE: DOOR SHALL SWING INTO OPEN BAY
- 3.0' STEEL MANDOOR WITH KEYCODE ENTRY
- METAL DOOR TRIM
- 25'-0"
- 3'-0"
- 4'-0"
- 32'-0"

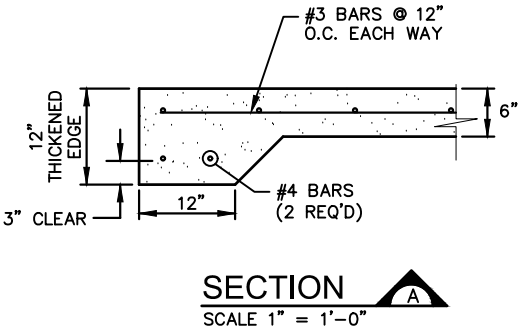
161



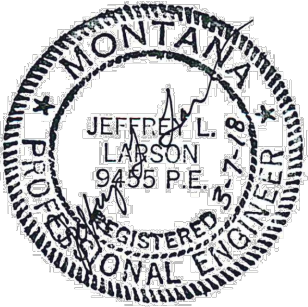
FOUNDATION PLAN
SCALE 1/8" = 1'-0"

KEY:
— CJ — CONSTRUCTION JOINTS SAW CUT TO 1-1/2" DEPTH IN SLAB

- FOUNDATION AND FOOTING NOTES:**
1. THE STRUCTURAL DESIGN OF FOOTINGS IS THE RESPONSIBILITY OF THE CONTRACTOR. DETAILS AND CALCULATIONS STAMPED BY A PROFESSIONAL ENGINEER SHALL BE SUBMITTED FOR REVIEW PRIOR TO ORDERING THE BUILDING PACKAGE.
 2. THE FOLLOWING FOOTING TYPES ARE ACCEPTABLE FOR THE BASE BID, METAL BUILDING STYLE CONSTRUCTION:
 - TIE ROD STYLE FOUNDATION - ONLY ALLOWED WITH A BELOW SLAB GRADE BEAM (OR 6" BELOW GRAVEL SURFACING)
 - MOMENT RESISTING FOUNDATIONS
 - SLAB WITH HAUNCH - MUST BE DESIGNED WITHOUT CONSIDERING THE CONTRIBUTION OF THE SLAB
 - TRENCH FOOTING
 3. FOOTINGS SHALL BE DESIGNED TO BE INDEPENDENT OF THE FLOOR SLAB.
 4. SOIL BEARING CAPACITY FOR FOOTING DESIGN IS 2,000 PSF.
 5. A MODULUS OF SUBGRADE REACTION, k, OF 150 PSI MAY BE USED FOR THE SLAB DESIGN.



- NOTES:**
1. THIS DETAIL IS TYPICAL ALONG ALL EDGES OF THE BUILDING SLAB
 2. INTERRUPT THICKENED EDGE SLAB AT RIDGID FRAME FOOTINGS AS NECESSARY.
 3. THIS DETAIL IS THE MINIMUM SECTION ALLOWED. IF THE STRUCTURAL DESIGN REQUIRES A LARGER THICKENED EDGE, OR DIFFERENT REINFORCING, THE STRUCTURAL DESIGN SHALL SUPERCEDED THIS DETAIL.



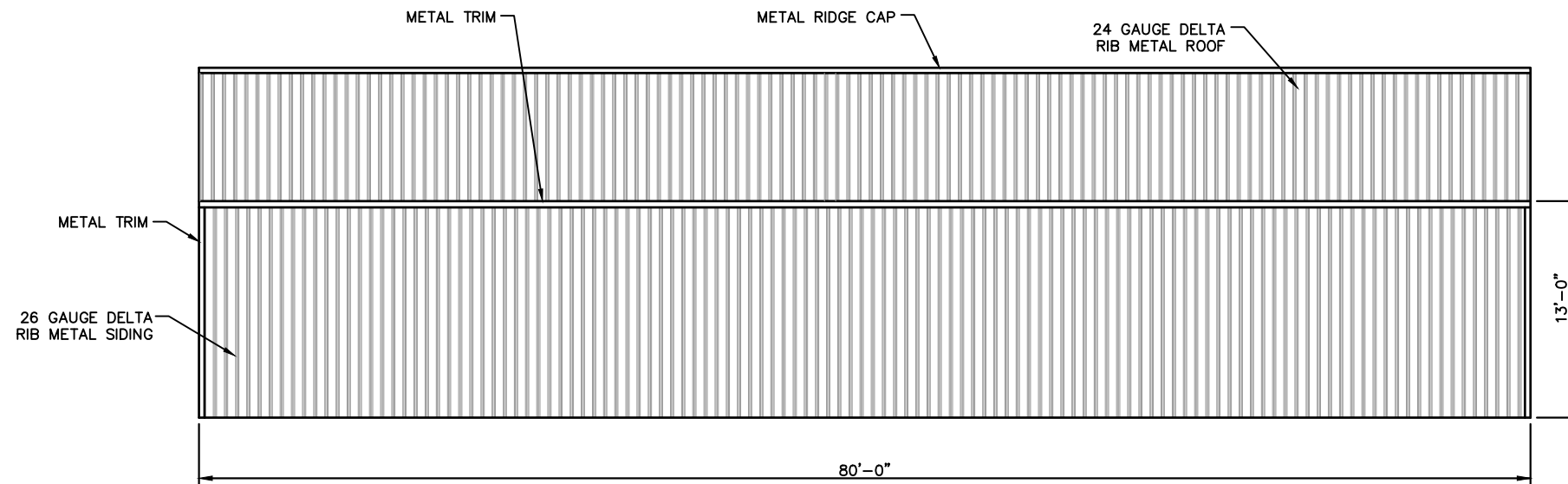
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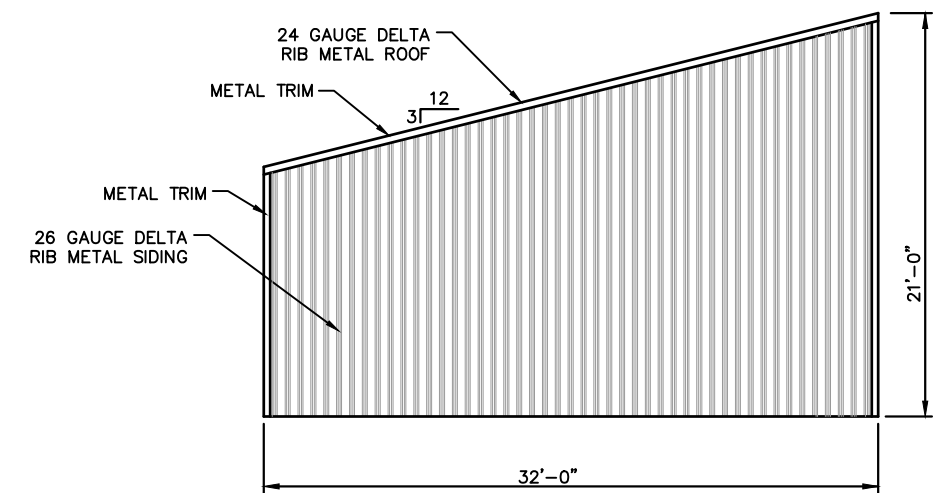
BUILDING FOUNDATION PLAN
LIBBY AREA OFFICE STORAGE BUILDING
FWP #7179101

LARSON CIVIL ENGINEERING, LLC
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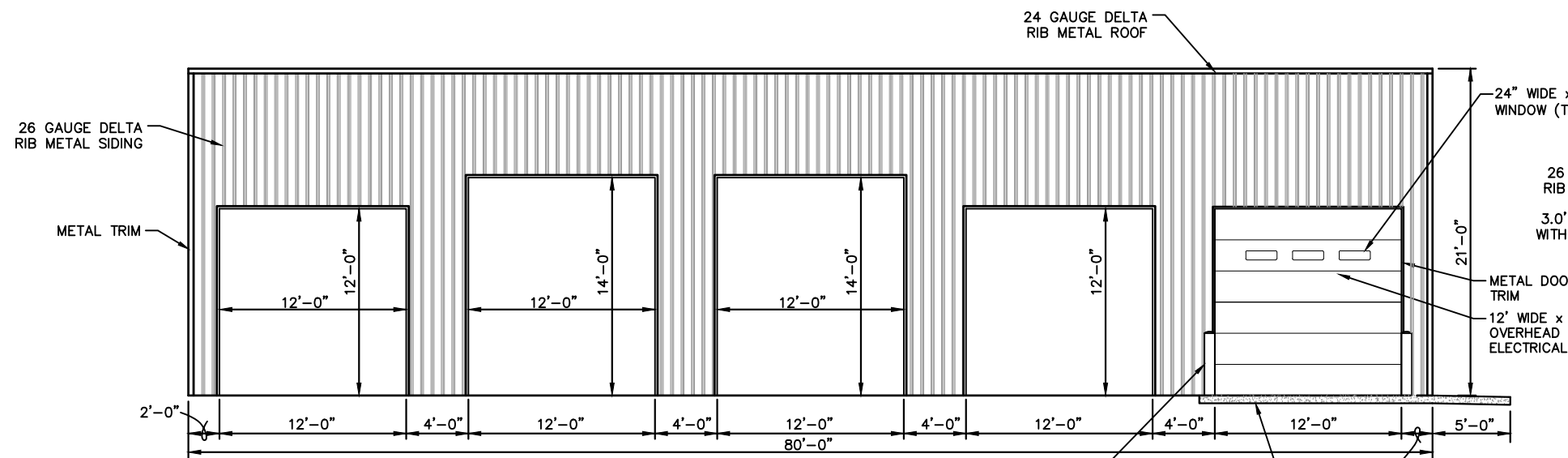
SHEET: **C3**



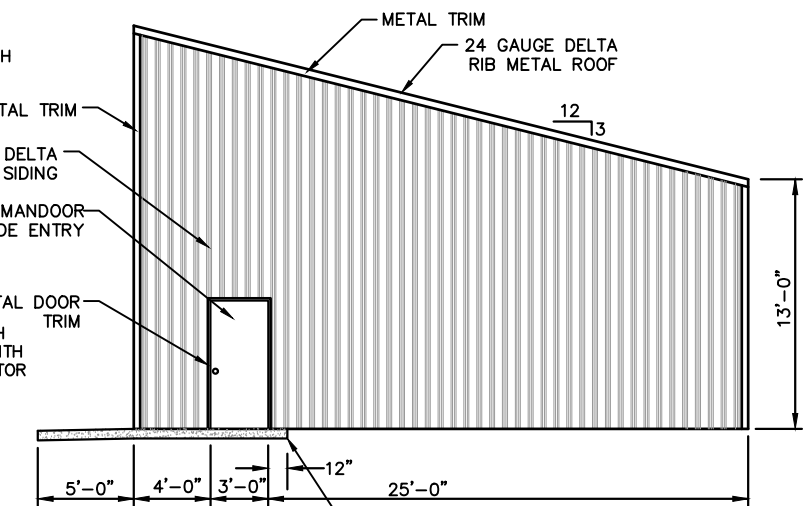
SOUTH ELEVATION



EAST ELEVATION



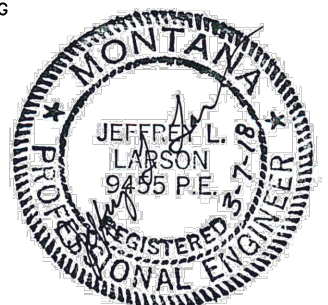
NORTH ELEVATION



WEST ELEVATION

BUILDING ELEVATIONS
SCALE 1" = 10'-0"

NOTE: COLORS OF
ROOFING, SIDING AND TRIM
ARE OWNER SELECT.



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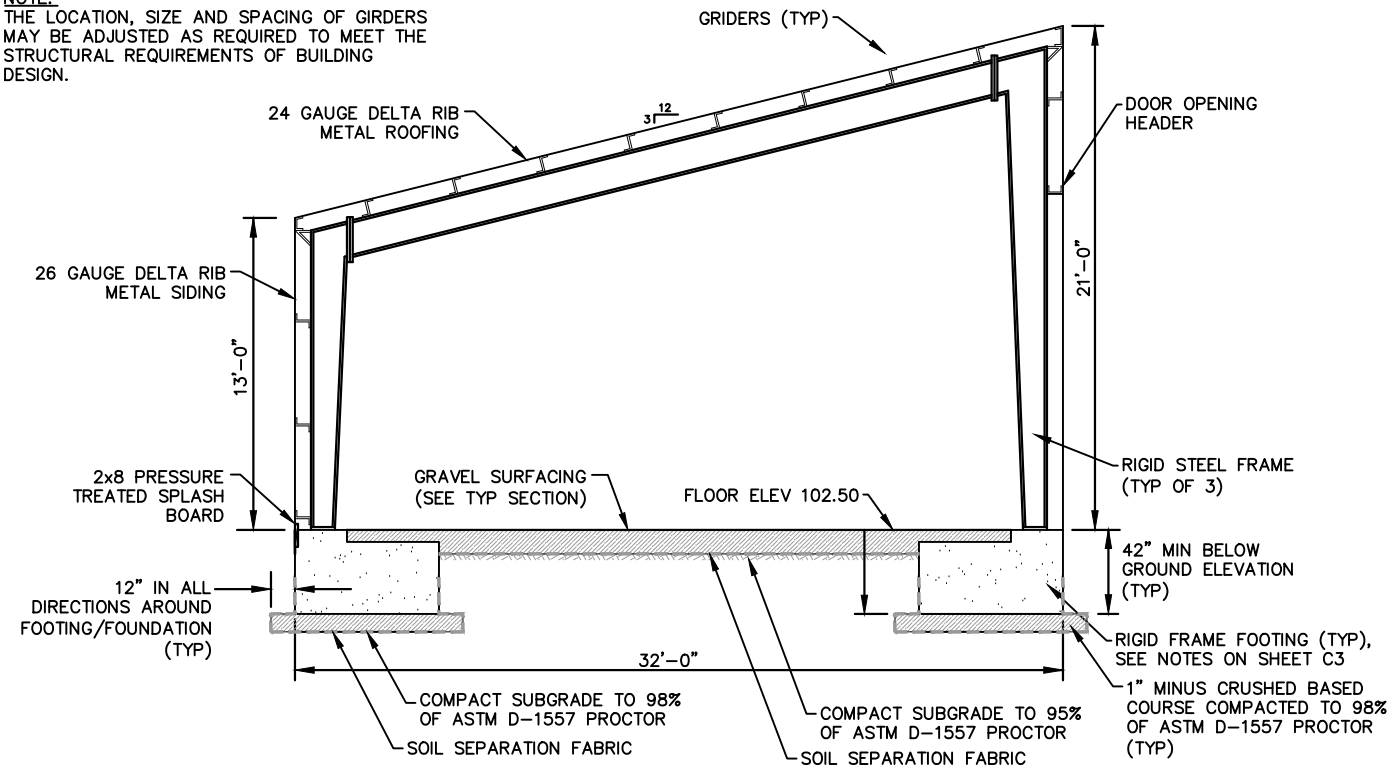


BUILDING ELEVATIONS
LIBBY AREA OFFICE STORAGE BUILDING
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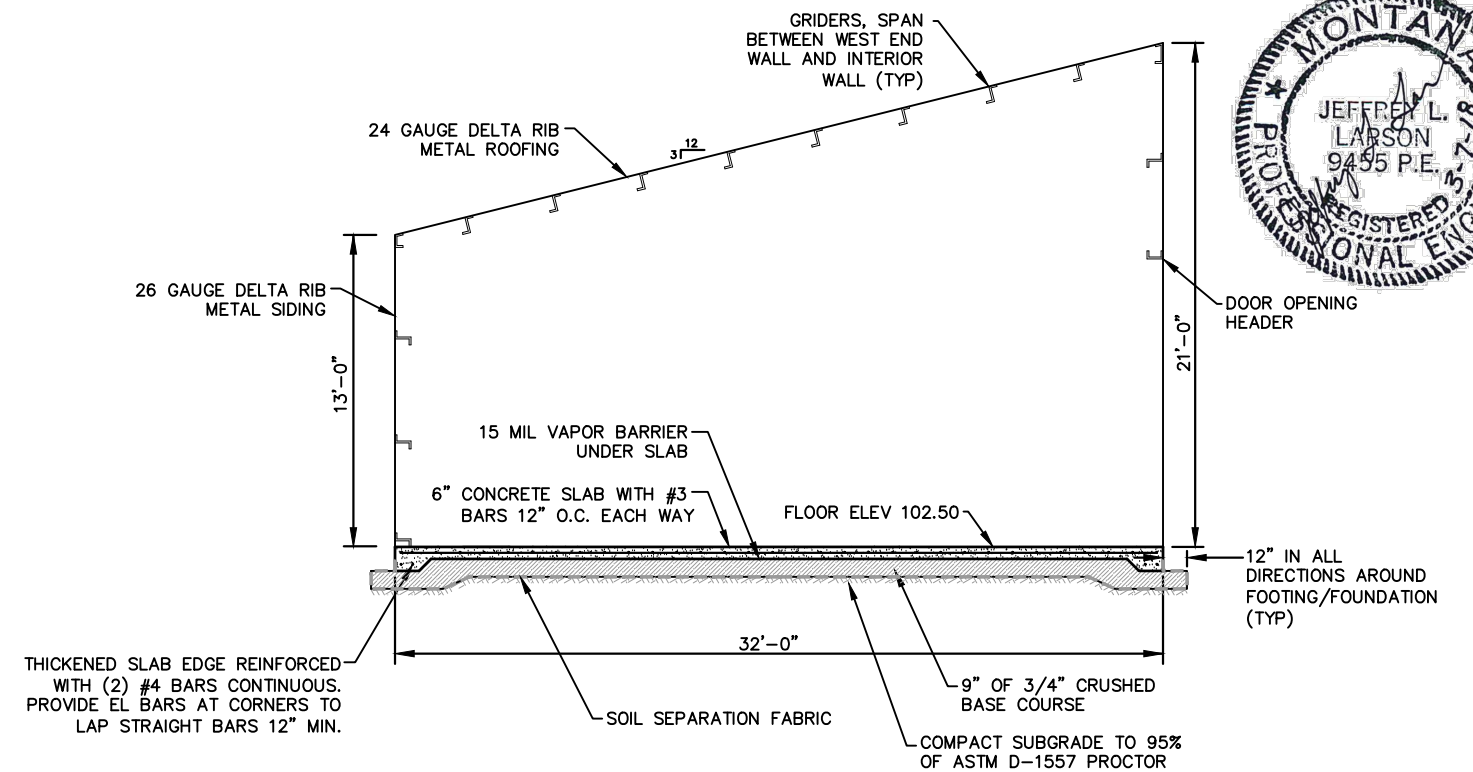
LARSON CIVIL
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SHEET: **C4**

NOTE:
THE LOCATION, SIZE AND SPACING OF GIRDERS
MAY BE ADJUSTED AS REQUIRED TO MEET THE
STRUCTURAL REQUIREMENTS OF BUILDING
DESIGN.

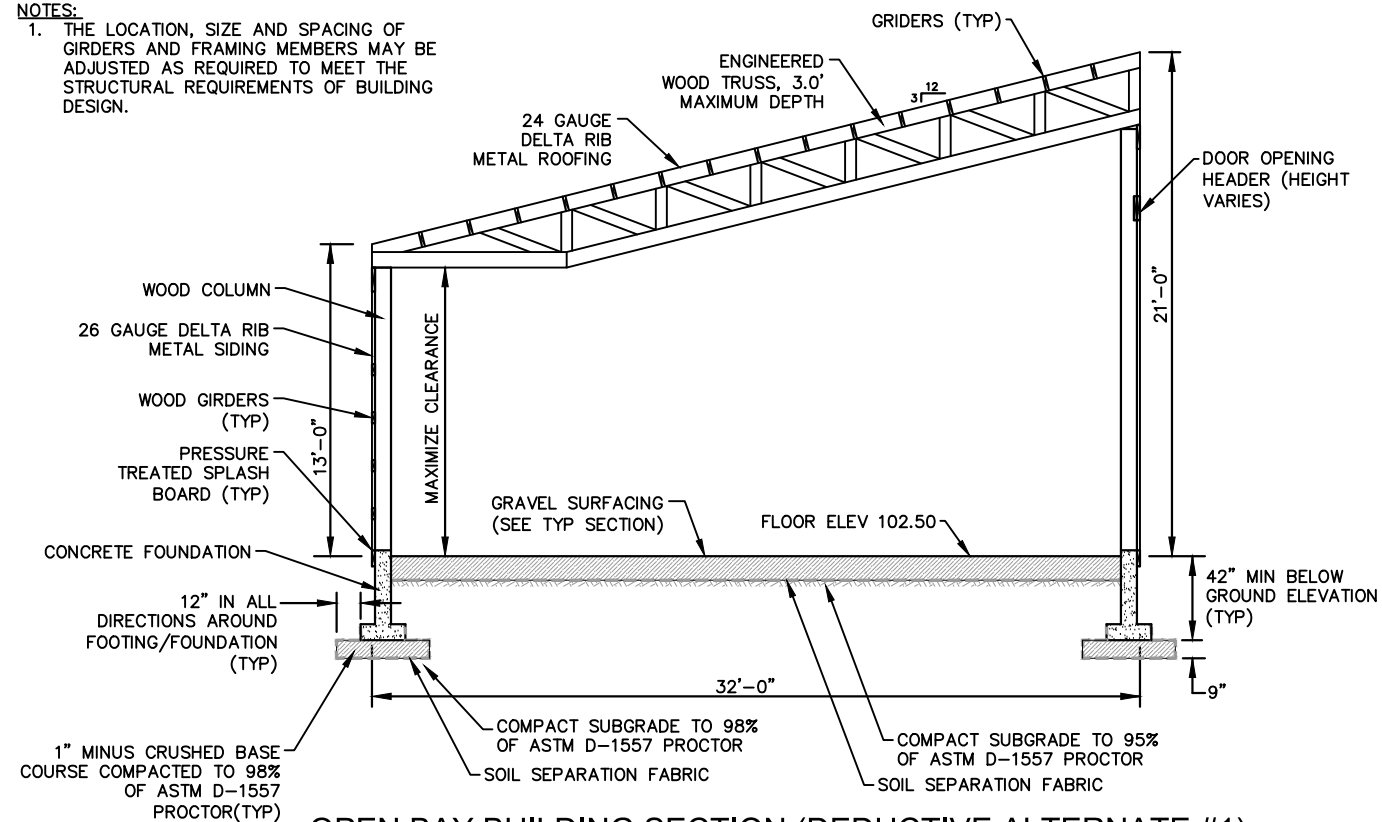


OPEN BAY BUILDING SECTION
NO SCALE

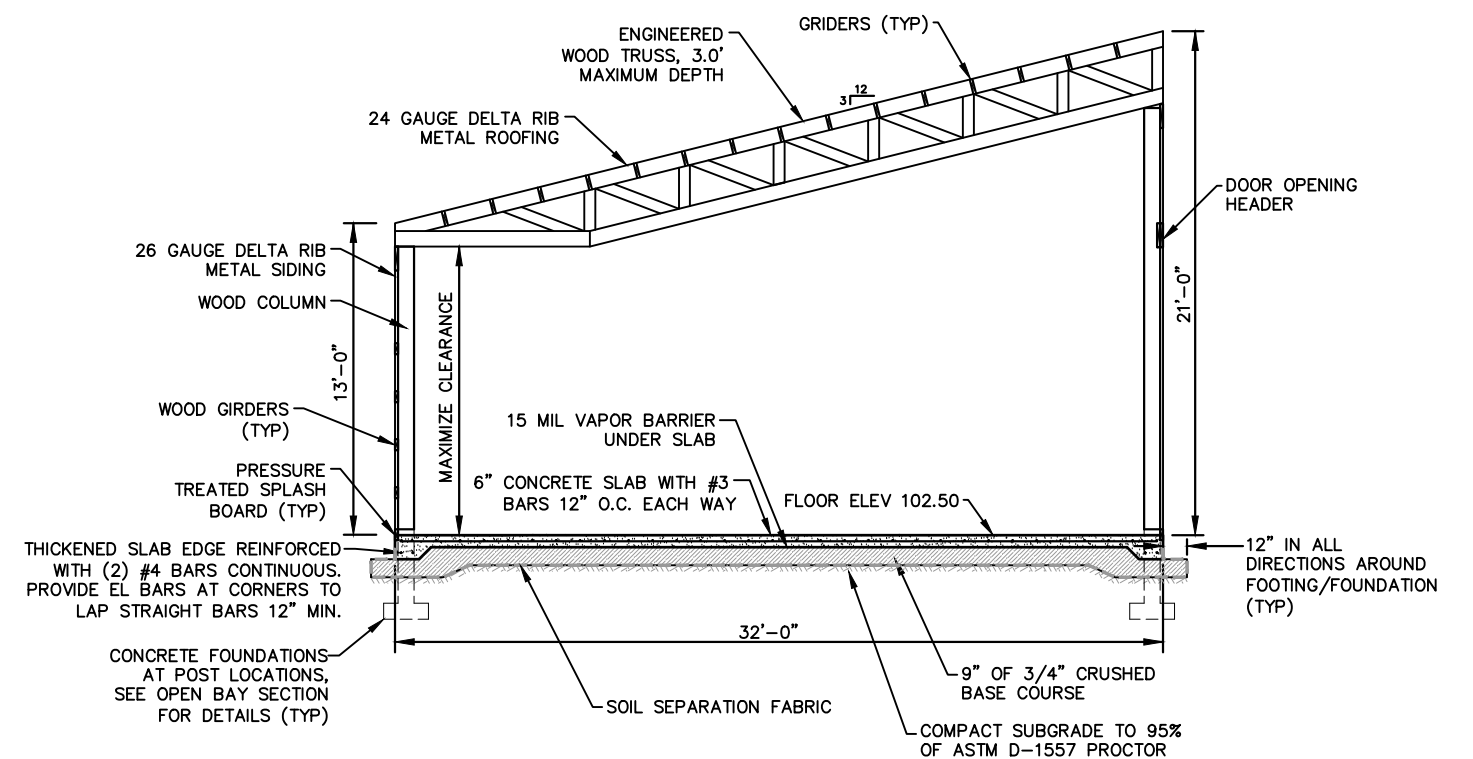


ENCLOSED BAY BUILDING SECTION
NO SCALE

NOTES:
1. THE LOCATION, SIZE AND SPACING OF
GIRDERS AND FRAMING MEMBERS MAY BE
ADJUSTED AS REQUIRED TO MEET THE
STRUCTURAL REQUIREMENTS OF BUILDING
DESIGN.



OPEN BAY BUILDING SECTION (DEDUCTIVE ALTERNATE #1)
NO SCALE



ENCLOSED BAY BUILDING SECTION (DEDUCTIVE ALTERNATE #1)
NO SCALE

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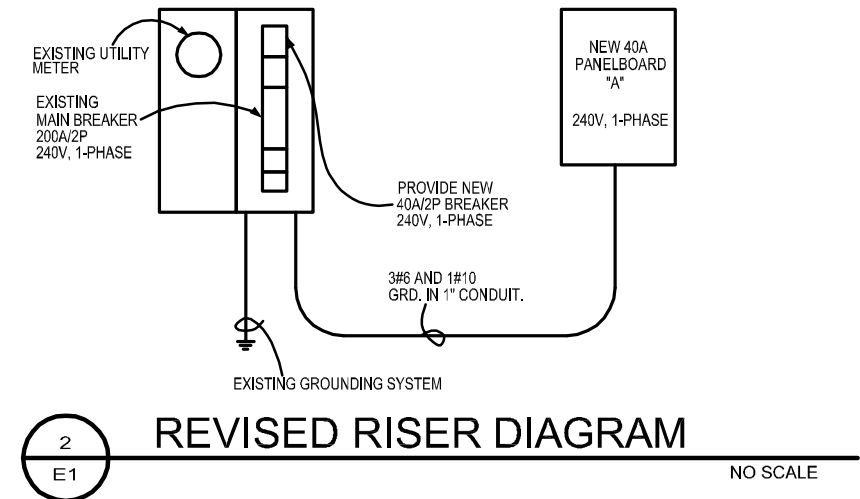
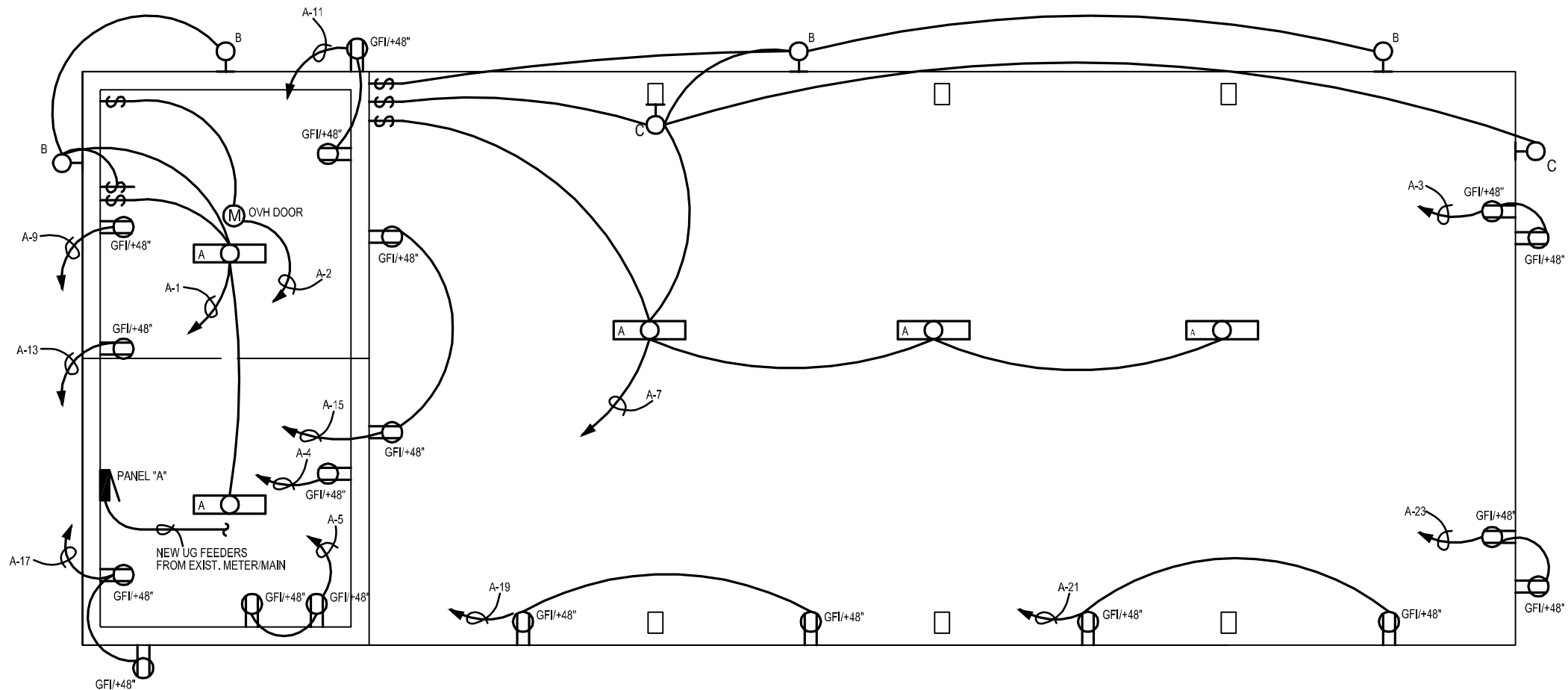
Montana Fish
Wildlife & Parks

BUILDING SECTION
LIBBY AREA OFFICE STORAGE BUILDING
FWP #7179101






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SHEET: C5














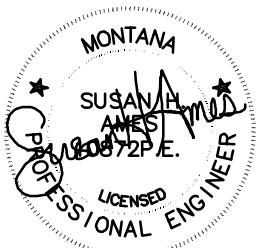
 **1**
E1 **STORAGE BUILDING ELECTRICAL PLAN**
1/8"=1'-0"

LIGHT FIXTURE SCHEDULE

LTR.	SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NO.	LOCATION	MOUNTING	LAMPS CAT. NO.	NOTES
A		1'X4' SURFACE MTD. LENSED GASKETED FIXTURE LED LAMPING	LITHONIA	FEM-L48-6000LM LPACL-MD-40K	CEILING	SURFACE	45W LED	120V
B		EXTERIOR FLOOD LIGHT 2-HEADS WITH PHOTOCELL LED LAMPS	LITHONIA	OFLR-6LC 120-P-BZ	WALL	WALL 8' AFF	20W LED	120V
C		EXTERIOR FLOOD LIGHT 3-HEADS WITH PHOTOCELL AND MOTION SENSOR, LED	LITHONIA	OFLR-9LC-MO 120-P-BZ	WALL	WALL 8' AFF	32.5W LED	120V
NOTES: 1								

ELECTRICAL LEGEND

	PANEL OR LOAD CENTER		LIGHT FIXTURES, WALL MOUNTED
	HOME RUN TO PANEL, NO. OF ARROWS INDICATES NO. OF CIRCUITS.		SWITCH, SPST
	NO. OF HASH MARKS INDICATES NO. OF CONDUCTORS IN CONDUIT. NO HASH MARKS INDICATES TWO CONDUCTORS-GROUND CONDUCTORS ARE NOT INCLUDED IN WIRE COUNT.		OUTLET, DUPLEX
	LIGHT FIXTURE, CEILING MOUNT		OUTLET, GROUND FAULT INTERRUPTER
			SPECIAL CONNECTION
			GFI GROUND FAULT INTERRUPTER
			HP HORSE POWER



S. AMES MAR. 6, 2018
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Montana Fish & Wildlife & Parks

165

ELECTRICAL PLAN
LIBBY AREA OFFICE STORAGE BUILDING
FWP #7179102

AMES
ENGINEERING, LLC
815 JADE STREET
HELENA, MT 59602
PHONE/FAX: (406) 458-0494
E-MAIL: susanhames@mt.net

SHEET: **E1**

PANEL A				AMPS 100A				BUS 100A																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Electrical Specifications

Scope: All electrical work under this contract as shown on the plans and indicated in the specifications. Work shall be performed by a licensed and bonded contractor utilizing tradesmen skilled in the art and in accordance with acceptable practices. All work shall comply with local, state, and the National Electrical Code, latest edition.

Permits: The electrical contractor shall secure all permits in connection with his work.

Work Included: All lighting and power systems including fixtures, devices, boxes, conduit, disconnects, motor starters, etc. Provide and install all incidental items required for a complete and functioning system. Service equipment, motors, etc. to be located and installed as shown on the plan. Deviations shall be approved prior to installation by the architect and/or engineer.

Tests: Prior to tests or usage, all switches, panels, devices shall be in place. All branch circuits shall be free of faults or shorts. The complete installation and all components shall have a resistance between conductors and between conductors and ground as specified by the N.E.C.

Ground: There shall be continuity of ground throughout the system. System ground to comply with N.E.C. requirements.

Materials: All materials such as receptacles, switches, conduit, conductors, panelboards, devices, fixtures, etc. to be new and bear the U.L. label or to conform to applicable standards.

Guarantee/Warranty: Contractor guarantees that all work and plant will be free from defects of materials and workmanship for a period of one (1) year from the date of final acceptance. Contractor further agrees that he will replace or repair all defective equipment and installation that become defective during the term of the warranty. This does not include excessive abuse or damage inflicted by the owner and/or others.

Manufacturers Directions, Procedures and Operating Instructions: Manufacturers materials, and equipment applied, installed, connected, erected, used, cleaned, and conditioned as per manufacturers directions or recommendations prior to installation.

Installation: All equipment, circuitry, etc. shall be installed as follows or as specified otherwise. The electrical contractor shall verify all nameplate ratings of equipment to be connected and verify electrical compatibility and code compliance. Manufacturer's recommendations shall take precedence unless verified otherwise.

Conductors and Cable: All conductors shall be copper with a weather resistant thermoplastic cover. No branch circuit conductors shall be smaller than #12 unless for low voltage wiring.

Motor Circuits: Motors and circuitry to be installed and connected as indicated on the plan. All motors to be provided with a disconnecting means per the N.E.C. If fractional horsepower motors do not have an integral disconnecting means such as a plug or snap switch, electrical contractor to provide and install an acceptable disconnecting means. Equipment connected with flexible conduit with green jacketed ground wire within conduit-to-conduit system or equipment ground. Connect for correct rotation.

Conduits: PVC schedule 40 acceptable where routed underground. If PVC is used, provide ground wire. Compression couplings in wet locations and in concrete walls and floors. Romex and MC cable are not acceptable.

Outlet Boxes:
Fixture and Special Purpose 4" x 4" x 2 1/8"
Duplex, Switch and Telephone 3" x 2" x 2 3/4"
Special Purpose Outlet 4" x 4" x 2 1/8"

Wire and Cable: Type THHN or THWN for application or as noted otherwise. Color code in accord with the NEC.

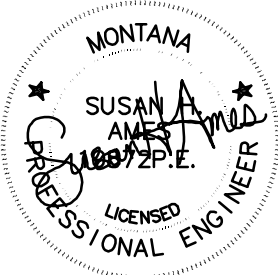
Current Characteristics: 120/240V, 1 phase, 3W

Wiring Devices: Product: Leviton, P&S, Hubbell, and Slater acceptable. Switch and receptacle colors; selected by owner. Devices and finish plates to match in color - no exceptions.

- Standard switches 20 amps, 277 volt with matching smooth plastic plate. Mount 44" to centerline.
- 1 pole Single pole toggle, 20A, Model No. CSB1-20
- Duplex outlet Nema standard WD 1 and 6, 20 amps, 125 volts grounded Model No. BR20 complete with smooth matching plate. Mount centerline at 18".
- GFCI receptacle, 20 amp, 125 volt - Model number 6899I with matching plate zinc weather resistant cover where indicated W.P.

Equipment Connections: Electrical contractor to coordinate all work where he is responsible for connecting equipment supplied by others. Verify equipment plug configurations and direct connect or install receptacle to match plug. Verify box mounting heights prior to rough in.

Disconnect and Schedule of Control Equipment: Product of General Electric, Square D, Cutler Hammer, and Westinghouse acceptable. Model, style, etc. as scheduled. Install fuses for disconnects if required and heaters for motor controllers as recommended by motor equipment supplier. Coordinate controls wiring as indicated on the schedule and make allowances there of.



S. AMES MAR. 6, 2018
DRAWN BY: DATE:
S. AMES MAR. 6, 2018
CHECKED BY: DATE:

REVISED BY: DATE:
S. AMES MAR. 6, 2018
APPROVED BY: DATE:

APPROVED BY: DATE:
APPROVED BY: DATE:



Montana Fish & Wildlife & Parks

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ELECTRICAL PLAN
LIBBY AREA OFFICE STORAGE BUILDING
FWP #7179102

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